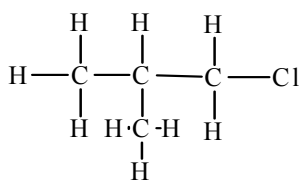
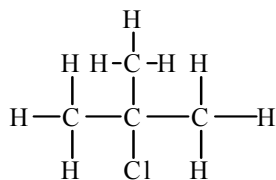
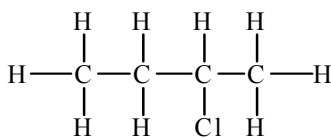
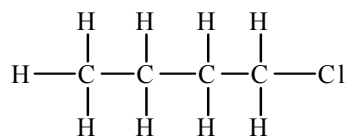


### Homework/Problem Set #1 Chapter 1

1. Draw the condensed and bond-line formulas for each of the following alkyl halides.

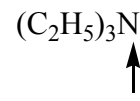


2. Which of the following ions do not possess a noble gas electron configuration?

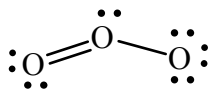
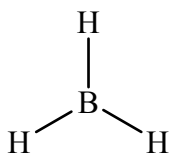
- (a)  $\text{Na}^+$  (b)  $\text{H}^-$  (c)  $\text{O}^-$  (d)  $\text{I}^-$  (e)  $\text{Mg}^{2+}$  (f)  $\text{S}^{2-}$

3. Draw all constitutional isomers for  $\text{C}_3\text{H}_8\text{O}$ .

4. Using Valence Shell Electron-Pair Repulsion Model predicts shape and bond angle of designated atoms.



5. Calculate the formal charge for each atom, except for H's, in the following compounds.



6. Assign the hybridization of all the atoms in the molecules below except H's

